snapserver™ BY ADAPTEC

Snap Server™ 110

Compact High-Performance Desktop Storage

Features

Best-in-class performance

160GB, 250GB, or 500GB capacity

CIFS/NFS/AFP support right out of the box for easy integration with Windows, UNIX, Linux, and Apple environments

Active Directory Service (ADS) integration

Whisper quiet

Snap Server Manager for easily managing one or more Snap Servers

RoHS and WEEE compliant

Options

Store block and file data on the same server using optional iSCSI support

CA *e*Trust Antivirus software

Backup and NDMP agent and BakBone NetVault support

Snapshot capability

Snap EDR enterprise-class data replication and disaster recovery

StorAssure Personal Edition desktop backup software

The Snap Server 110 by Adaptec combines best-in-class storage performance with customer-centric ease of use, and capacity ideal for workgroups and remote offices. Built on the award-winning GuardianOS™ platform, the Snap Server 110 integrates many enterprise-class features into a new class of cost-effective storage for small and medium-sized businesses and the distributed environments of many larger companies. Choose the Snap Server 110 and see why nearly 200,000 users around the world have made simple, stable, and secure Snap Servers the volume leader in network attached storage.

A new class of performance

The Snap Server 110 combines a high-performance processing platform with the functionality of Snap Server GuardianOS. It outperforms all other single-drive networked storage alternatives. The proven GuardianOS software and platforms have been fine-tuned for network storage over years of development to simplify data consolidation and management, maximize data protection/security, and make the most of your storage budget.

Monitoring and control made simple

With legendary Snap Server ease of use and management, the Snap Server 110 installs in just minutes, and is virtually maintenance-free after installation. It integrates seamlessly into Windows, Linux, UNIX, and Apple environments. Snap Server makes it simple for anyone to manage a single Snap Server or all the Snap Servers in the organization.

One server unifying data types

With Snap Servers, you can easily store database, email, and file-level data on a single server. The iSCSI support option in the GuardianOS platform allows you to secure manage, store, and distribute block data across your Ethernet network using industry-standard iSCSI initiators.

Choose the data protection you need

The Snap Server 110 has the ability to integrate with many popular backup applications. You can also tailor data protection, backup, and disaster recovery applications to your specific business need. Choose from options including CA *e*Trust Antivirus data protection software, a WorkGroup Edition of BakBone NetVault Server with a 500GB Virtual Tape Library license, and snapshot capability for faster backup. Take your solution further with disaster recovery using StorAssure Personal Edition for automated backup of desktop and laptop systems, or Snap Enterprise Data Replicator (Snap EDR).

Complete storage solutions for distributed enterprise

Simply and cost-effectively share, manage, and protect data distributed throughout your business. For complete solutions that extend from the data center to the edge of your company, choose Snap Server.

Optional Software Choices

iSCSI

iSCSI software enables storage of database, email and other block data on the Snap Server. Share storage capacity between block and file applications.

Backup

BakBone NetVault WorkGroup Edition is integrated into GuardianOS. Turn it on and use your Snap Server as a backup server or virtual tape library. The Snap Server 110 also provides optional NDMP support.

AntiVirus

CA *e*Trust Antivirus is an award-winning, comprehensive antiviral defense solution that protects your data storage.

Snapshots

Snapshot technology enables immediate or scheduled point-in-time images of the file system for faster backup and recovery.

Enterprise-Class Data Replication

The Snap Enterprise Data Replicator (Snap EDR) suite simplifies cross-platform management, protection and disaster recovery of distributed data.

Automated Desktop/Laptop Backup

StorAssure Personal Edition ensures data stored on desktop and laptop systems is automatically backed up to the Snap Server whenever files change.

Snap Server 110 Specifications

Physical

- Width: 6.1 in (154.9 mm)
- Height: 3.1 in (44.45 mm)
- Depth: 10.1 in (256.5 mm)
- Weight: 6.5 lbs (2.77 kg)

Agency Certifications

- UL, cUL, CE, FCC Class A, TuV, Nemko

Processor

- 1GHz

Memory

- 256MB

Drive Configuration

- 1 x 160GB, 1 x 250GB, or 1 x 500GB SATA II drive

Network Interface

- Autosensing 10/100/1000Base-T, single RJ-45

USB Interface

- Support for APC UPS device over USB

Power

- Power Rating: 60W, 100-240VAC, 50-60Hz
- Input Current: 1.8A (RMS) for 115VAC, 0.9A (RMS) for 240VAC
- Power Consumption: 44W (steady state)
- Heat Dissipation: 150 BTUs/hr

Environmental Limits, Operating

- Temperature: 50° F to 95° F (10° C to 35° C)
- Non-Condensing Humidity: 20% to 80%
- Vibration: .1G at 10-300Hz random for 120 min. max duration
- Shock: 6 pulses of 33G for up to 2ms
- Altitude: 0 ft. to 10,000 ft (0 m to 3048 m)

Environmental Limits, Non-operating

- Temperature:14° F to 149° F (-10° C to 65° C)
- Non-Condensing Humidity: 5% to 95%
- Vibration: 2G at 5-500Hz for 90 min. max duration
- Altitude: 0 ft. to 35,000 ft. (0 m to 10,668 m)

Acoustics

- Operating idle: 36db (typical office environment)

GSA Listed

This product is listed by the U.S. General Services Administration. Contact your distributor for details.

GuardianOS Specifications

Network Transport Protocols

- TCP/IP
- UDP/IP
- AppleTalk

Network File Protocols

- Microsoft Networks (CIFS/SMB)
- Linux/UNIX (NFS v2/3 over TCP & UDP)
- Apple (AFP v2/v3)
- Web (HTTP 1.1/HTTPS)
- File Transport Protocol (FTP)

Network Block Protocols

iSCSI Target Support

• Supports qualified iSCSI software and hardware initiators (see details below).

iSCSI Software Initiator Support

- Windows: Microsoft iSCSI Initiator v1.03, v1.04, v1.05, v1.06, v2.02
- Solaris: Cisco SN 5400 Series iSCSI Driver v3.3.5
- Linux: RHEL 3 & 4 and SLES 9: Built-in Initiator; Redhat 7.3 & 9.0: UNH-iSCSI Initiator v1.5.3
- NetWare: NetWare Initiator 6.5 SP1

  - emboot Bootable iSCSI Software for Windows

  - VMWare ESX v3.0 in-box iSCSI Initiator

iSCSI Hardware Initiator Support

- Intel PRO/1000T IP Storage Adapter v2.0, 2.1
- Alacritech SES1001 iSCSI Adapter
- QLogic QLA4010 iSCSI Initiator

Network Client Types

- Windows: 98, Me, NT 4.0, 2000, 2003, XP
- Macintosh: OS 8.x, 9.x, 10.x
- UNIX: Solaris 7, 8, 9; HP-UX 11; AIX 4.3.3, 5.x
- Linux: Red Hat Linux 7.x, 8.x, 9.x; Fedora
- FTP

Server Emulation

- Windows 2000/2003
- Windows NT 4.0
- AppleShare v2/v3)
- NFS v2/3
- FTP

Automatic IP Address Assignment

- Supports DHCP Client or Server for automatic assignment of IP address

Network Security

- Microsoft Active Directory Service (ADS Member Server)
- Kerberos Authentication v5
- Windows NT Domain (member server)
- File and Folder Access Control List (ACL)
- UNIX Network Information Service (NIS) Support
- UID/GID mapping between NFS & CIFS
- Secure Sockets Layer (SSL) v3 128-bit Encryption
- Transport Layer Security (TLS) v1
- CHAP Authentication (iSCSI target level)

System Management

- Browser-Based User Interface for Remote Administration
- Snap Server Manager Client-Based Setup Utility (platform-independent)
- SNMP (MIB II and Host Resource MIB)
- User Disk Space Quotas for Windows, Macintosh, and UNIX/Linux
- Group Disk Space Quotas for NIS Groups
- Environmental Monitoring
- Email Notification Alerts
- Network Time Protocol Support

GuardianOS Specifications (cont.)

Data Protection

- Snapshots: Optional snapshot technology enables immediate or scheduled point-in-time images of the file system.
- Antivirus: Optional CA *e*Trust Antivirus Software
- Enterprise-Class Replication: Optional Snap EDR simplifies cross-platform management and protection of distributed data.
- Backup: Optional BakBone NetVault WorkGroup Edition.
- Automated Desktop/Laptop Backup: StorAssure Personal Edition ensures data stored on desktop and laptop systems is automatically backed up to the Snap Server whenever files change.
- Network Backup: Supports VERITAS NetBackup/Backup Exec, CA BrightStor ARCserve/Enterprise, Legato NetWorker, BakBone Netvault, and Microsoft Backup Software for Windows 98, Me, NT, 2000, 2003, XP. Compatible with Dantz Retrospect for Macintosh.
- UPS Support: APC brand UPS over a USB and Network Management Cards are supported for graceful system shutdown.

Models	Part Number
Snap Server 110, 160GB	5325301977
Snap Server 110, 250GB	5325301978
Snap Server 110, 500GB	5325301979
Software Options	
iSCSI	5325302027
Snapshot	5325302025
NDMP	5325302026
BakBone NetVault	5325302023
CA *e*Trust Antivirus	5325302024
Snap EDR	5325302018
Snap EDR Advanced	5325302020
Snap EDR Express	5325302015
StorAssure Personal Edition	5325301972
Snap Server Manager license*	5325301955

**Control of individual server is included, this license enables multi-server administration*

Worldwide Warranty

Snap Server hardware and software are backed by world-class service and support to protect your investment from downtime. With Adaptec services, you have complete peace of mind. Standard services with the Snap Server 110 include:

- Three-year limited hardware warranty, return to depot
- 30-day software support

Optional Support Programs

Today's mission-critical environments require maximum uptime and rapid resolution should problems arise. Adaptec provides a comprehensive suite of service and support upgrade options created to help you protect your business operations. Providing additional levels of technical service and support, Adaptec services extend the standard protection packages already included with all Adaptec products, including the market-leading Snap Server products. From extending your warranty phone support to complete onsite support for same day recovery, you can select the level of support that best fits your business and resource requirements. For more information about Adaptec services, please contact your distributor, call Adaptec at 1-800-442-7274 or visit us online at: **www.snapserver.com**

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